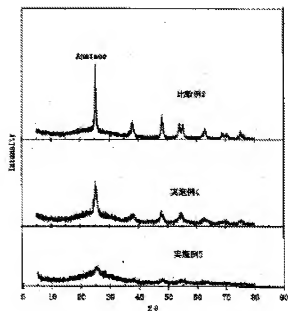


POROUS GROUP IV METAL OXIDE, PRODUCING METHOD THEREOF AND USE THEREOF**Publication number:** JP2002028485**Publication date:** 2002-01-29**Inventor:** KUDO HIDEHIKO; INOUE SHINICHI; TAKATSUKA TORU; MUTO AKIHIRO; ONO TAKEO**Applicant:** CHIYODA CHEM ENG CONSTRUCT CO**Classification:****- international:** *B01J23/28; B01J21/06; B01J23/30; B01J23/745; B01J23/755; B01J27/053; B01J27/18; B01J35/10; B01J37/04; B01J37/08; C01G23/04; C01G25/02; B01J23/16; B01J21/00; B01J23/745; B01J23/755; B01J27/053; B01J27/14; B01J35/00; B01J37/00; C01G23/00; C01G25/00; (IPC1-7): B01J23/28; B01J21/06; B01J23/30; B01J23/745; B01J23/755; B01J27/053; B01J27/18; B01J35/10; B01J37/04; B01J37/08***- European:****Application number:** JP20000213535 20000713**Priority number(s):** JP20000213535 20000713[Report a data error here](#)**Abstract of JP2002028485**

PROBLEM TO BE SOLVED: To provide a porous group IV metal oxide which is excellent in heat stability, is large in specific surface area and is highly dispersed with catalytic metal, a producing method thereof and a use thereof, and to provide a porous group IV metal oxide which is useful as a catalyst or a catalyst carrier which has a controlled sharp pore distribution and has excellent reaction selectivity in addition to the excellent heat stability, high specific surface area and high dispersion of catalytic metal, a producing method thereof and a use thereof. **SOLUTION:** This porous group IV metal oxide has a high specific surface area of ≥ 80 m²/g which is obtained by adding one or more kinds of anions or/and one or more kinds of cations as a particle growth inhibitor to a hydrosol or a hydrogel, or dried materials thereof of group IV metal oxide hydrate which is shown by a general expression MO₂.nH₂O where M denotes a group IV metal and n is 0.02 or more, thereafter drying and calcining the hydrosol or hydrogel, or dried material thereof. The producing method thereof and the use thereof.



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